



# Washington Department of Fish and Wildlife

## Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

### Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

### Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

**NFB** = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q<sub>fp</sub>** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

## WDFW Fish Passage and Diversion Screening Inventory Database

### Site Description Report

Site ID 105 R121420a

Project WSDOT

☐ Mitigated

#### Geographic Coordinates

Latitude (WGS 84): 47.246344  
Longitude (WGS 84): -122.369716  
East (NAD 83 HARN): 1,176,073.7  
North (NAD 83 HARN): 703,137.2

#### Waterbody

Stream: Wapato Cr  
Tributary To: Blair Waterway  
WRIA: 10.0017  
River Mile: -999.99  
Fish Use Potential: Yes  
FUP Criteria: Mapped

#### General Location

Road Name: 12th St E  
Mile Post: -999.99  
County: Pierce  
WDFW Region: 6

#### Owner

Type: City  
Name: City of Fife

#### PI Species

☐ Sockeye ☒ Chinook ☒ Sea Run Cutthroat  
☒ Pink ☒ Coho ☒ Resident Trout  
☒ Chum ☒ Steelhead ☐ Bull Trout

#### Associated Features

☒ Culvert ☐ Dam ☐ Natural Barrier ☐ Diversion  
☐ Non-Culvert Xing ☐ Other ☐ Fishway

#### Location/Directions

12th St, East of Alexander

#### Site Comments

U/S end is on private property, member of Puyallup Nation.

11/18/2021

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Level A Culvert Assessment Report

Site ID: **105 R121420a**  
 Latitude: **47.246344** Stream: **Wapato Cr** WRIA: **10.0017**  
 Longitude: **-122.369716** Tributary To: **Blair Waterway** Fish Use Potential: **Yes**

Data Source: Washington Department of Fish and Wildlife

Field Crew: Coleman;Tran

Review Date: 10/1/2019

### Culvert Details

ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)	Sediment
1.2	RND	PCC	1.52	1.52	13.10	0.10	NO	0.45	Outlet	No	No	0.53	
2.2	RND	PCC	1.52	1.52	13.30	0.08	NO	0.45	Outlet	No	No	0.23	

All dimensions in meters

### Channel Description

Toe Width (m): 1.75

Average Width (m): 4.17

Culvert/Stream Width Ratio: 0.73

### Plunge Pool

Length (m): 2.61

Max Depth (m): 0.44

OHW Width (m): 4.85

### Road

Fill Depth (m): 2.00



### Assessment Results

Tidal Influence:

Tidegate Present: No

Barrier: Yes

Passability (%): Unknown

Method: Other

Reason: Other

Fishway Present: No

Recheck:

### Comments

U/S riprap headwall. Concrete wall at steep angle under outlet, creating WSD. Concrete headwall at outlet. At outlet Cr takes 90 degree turn toward LB, parallel to road. Tidally influenced (Level T). Drop at low-tide no longer present at +13 ft MLLW.

### Potential Habitat Gain

Survey Type: RSFS

Spawning (sq m): -999

Length (m): 18,467

Significant Reach: Yes

Rearing (sq m): -999

PI Total 31.25

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## WDFW Fish Passage and Diversion Screening Inventory Database

### Habitat Survey Summary Report

Site ID: <b>105 R121420a</b>			
Latitude: <b>47.246344</b>	Longitude: <b>-122.369716</b>	WRIA: <b>10.0017</b>	
Stream: <b>Wapato Cr</b>	Tributary To: <b>Blair Waterway</b>	PI Total: <b>31.25</b>	

Survey Type

Spreadsheet File(s):

4-105 R121419aMS\_1.xlsx, 5-105 R121419aMS\_2.xlsx, 6-105 R121419aTA.xlsx, 7-105 R121419aTB.xlsx, 8-105 R121419aTC.xlsx, 9-105 R121419aTD.xlsx, 10-105 R121419aTDA.xlsx, 11-105 R121419aTDAa.xlsx, 12-105 R121419aTE.xlsx

#### Downstream Survey

Date:  Crew:  Length (m):

Downstream Comments:

#### Upstream Survey

Date:  Crew:  Length (m):

Upstream Comments:

Cr travels through residential, commercial, and agricultural land. Channel is heavily modified with dominate mud substrate and 1-2% gradient through majority of Cr. 7 tributaries, 3 of which are large ponds.

#### Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution  
☒ Anadromous  
☐ Resident Only  
☐ Unknown

Gain Direction (Resident Only):

#### Potential Species Benefit

☐ Sockeye / Kokanee

☒ Pink

☒ Chum

☒ Chinook

☒ Coho

☒ Steelhead

☒ Searun Cutthroat

☒ Resident Trout

☐ Bull Trout

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Barrier Priority Index Report

Site ID: 105 R121420a

Stream	Wapato Cr	Trib To	Blair Waterway	WRIA	10.0017
Habitat (H) Estimation Method			RSFS		

	B	H	M	D	C	Species PI
Sockeye			2		2	0.00
Pink			2		2	0.00
Chum	0.33	6,159	2	1	2	10.04
Coho	0.33	24,486	2	1	2	6.34
Chinook			2		2	0.00
Steelhead	0.33	24,486	2	3	2	3.78
Searun Cutthroat	0.33	24,486	2	1	2	5.88
Resident Trout	0.33	27,687	1	1	2	5.21
Dolly/Bull Trout					2	0.00
					<b>TOTAL PI</b>	<b>31.25</b>

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

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**WDFW Fish Passage and Diversion Screening Inventory Database**  
**Image Report - Active**

Site ID: **105 R121420a**

Latitude: **47.246344**

Stream: **Wapato Cr**

WRIA:

**10.0017**

Longitude: **-122.369716**

Tributary To: **Blair Waterway**

Fish Use Potential:

**Yes**

**Associated Features**

☒ Culvert

☐ Dam

☐ Natural Barrier

☐ Diversion

☐ Non-Culvert Xing

☐ Other

☐ Fishway



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